

# Install the EH6100, EH8100, or EH9100 Appliance

This guide explains how to install the rack-mounted EH6100, EH8100, or EH9100 ExtraHop® appliance.

## System Requirements

The ExtraHop system uses the rack-mounted ExtraHop appliance in conjunction with a browser-based graphical user interface. Installation of the ExtraHop appliance has the following requirements:

### EH6100

- Appliance: 1U of rack space and 495W of power
- Network Access: Four 10/100/1000 BASE-T network ports and two 10G BASE-SR ports

### EH8100

- Appliance: 1U of rack space and 2x495W of power
- Network Access: Four 10/100/1000 BASE-T network ports and two 10G BASE-SR ports

### EH9100

- Appliance: 2U of rack space and 2x750W of power
- Network Access: Four 10/100/1000 BASE-T network ports and four 10G BASE-SR ports

You can access the ExtraHop graphical user interface from any web browser that supports the Adobe Flash Player 9 plug-in, available for download from [www.adobe.com/products/flashplayer/](http://www.adobe.com/products/flashplayer/).

## Install the ExtraHop Appliance

To install the ExtraHop appliance, complete the following steps.

1. **Rack Mount the ExtraHop Appliance:** Install the ExtraHop appliance in your datacenter using the included rack-mounting kit, which supports most four-post racks with either round or square holes.
2. **Connect Port 1:** The ExtraHop appliance contains four 10/100/1000 BASE-T network ports and uses port 1 to administer the system. Use a network patch cable to connect the Gb1 port on the ExtraHop appliance to the management network.

## Acquire an IP Address

You can acquire an IP address automatically or choose to configure a static IP address. The ExtraHop system displays the assigned IP address on the LCD at the front of the appliance.

**Automatically Acquired IP Address:** DHCP is enabled by default on the ExtraHop appliance, so when you power on the system, interface 1 attempts to acquire an IP address using DHCP. After the DHCP server assigns an IP address, the ExtraHop system displays it on the LCD at the front of the appliance.

**Static IP Address (CLI):** If your network does not support DHCP, you can use the ExtraHop web administration utility or the command line interface (CLI) to configure a static IP address. You can access the CLI from a USB keyboard and SVGA monitor or by using an RS-232 serial cable and a terminal-emulator pro-

gram. The terminal emulator must be set to 115200 bps with 8 data bits, no parity, and 1 stop bit (8N1). Hardware flow control should be disabled.

Refer to the following table for RS-232 serial cable pin assignments.

Signal Name	DB-9 Pin (Server Pin)	DB-9 Pin (Workstation Pin)
FG (Frame Ground)	-	-
TD (Transmit Data)	3	2
RD (Receive Data)	2	3
RTS (Request to Send)	7	8
CTS (Clear to Send)	8	7
SG (Signal Ground)	5	5
DSR (Data Set Ready)	6	4
CD (Carrier Detect)	1	4
DTR (Data Terminal Ready)	4	1 and 6

In the CLI, complete the following steps to set the IP address:

1. Log in to the console with the shell user account. The password is the service tag number on the pull-out tab on the front of the appliance.
2. Enable the privilege commands.

```
extrahop>enable  
Password:  
extrahop#
```

3. Enter the configuration section.

```
extrahop#config  
extrahop(config)#
```

4. Enter the interface section.

```
extrahop(config)#interface  
extrahop(config-if)#
```

5. Set the IP address and DNS using this syntax: `ip ipaddr IP_ADDRESS NETMASK GATEWAY DNS_SERVER`

```
extrahop(config-if)#ip ipaddr 10.10.2.14 255.255.0.0  
10.10.1.253 10.10.1.254  
extrahop(config-if)#ip dnsservers 10.10.1.254 10.10.2.254
```

6. Save the running config.

```
extrahop(config-if)#exit  
extrahop(config) * #running_config save
```

```
Would you like to write configuration changes to default
config [Y/n]?: y

extrahop(config)#
```

The full set of commands is as follows:

```
extrahop>enable

Password:

extrahop#configure

extrahop(config)#interface

extrahop(config-if)#ip ipaddr <addr> <netmask> <gateway>
<dns>

Changing IP address. Please wait...

.Done

extrahop(config-if)#exit

extrahop(config) * #running_config save

Would you like to write configuration changes to default
config [Y/n]?: y

extrahop(config)#exit

extrahop#
```

After you assign a static IP address, the ExtraHop system displays it on the LCD at the front of the appliance.

**Static IP Address (LCD):** When the appliance is running, the LCD displays the existing IP.



If an IP address hasn't been configured, the LCD displays **No IP**. Complete the following steps to configure the IP address.

1. Press the **Select** (checkmark) button. Navigate using the left and right arrow buttons. Select **Net**.



2. Select **Host**.



The screen displays the host name. Return to the previous screen by scrolling to the up arrow on the screen and selecting it.

3. Select **DHCP** to see how the IP address is configured. Use left and right arrow buttons to select an option, and press the **Select** button.



4. On the **Net** screen, select **IP** and use the left and right arrow buttons to move between the digits. On the selected digit, click the **Select** button. The digit blinks when selected. While the digit is blinking, use the left and right arrow buttons to change the digit value.



**Note:** Setting a static IP address may require several attempts. If the static IP address fails to save on the first attempt, set a temporary static IP address and then set the desired static IP address.

5. Once you have entered the number, click **Select** to once again use the left arrow button to navigate to the up arrow on the screen and select it. On the **Save** screen, select **Yes**.



6. Wait to be redirected to the **Net** screen. Repeat these steps to set the mask, gateway, and up to two DNS servers.
7. Use the arrow keys to scroll back to the **Home** menu and select **iDRAC**. Configure the iDRAC DHCP, IP, mask, gateway, and DHCP in the same manner as the IP.



8. On the **Net** screen, select **Errors** to view system events such as CPU errors, undetected hard drives, or missing power supplies. When an error occurs, the LCD turns amber and displays the error immediately.



9. If there are multiple errors, use the left and right arrow buttons to scroll between the error messages. Press the **Select** button to exit the error screen. The **Clear** option removes the list of messages from the error screen.



10. When the system is not running, the LCD screen displays **ExtraHop**.

## Configure the System Time

The default time server setting is `pool.ntp.org`. If you want to use the default setting, go to the next section.

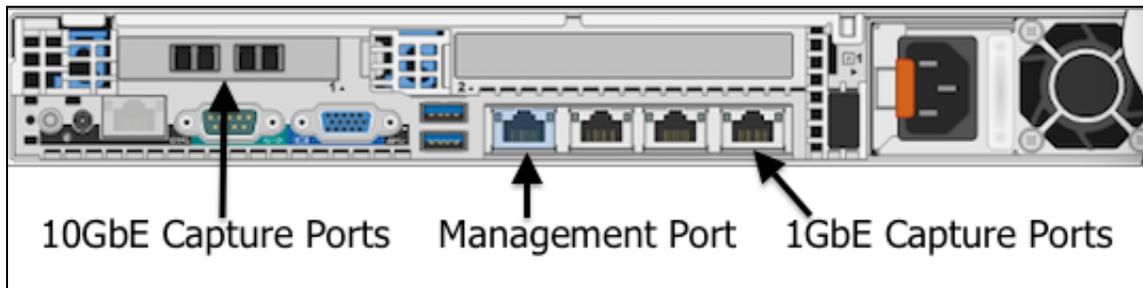
You can configure the system time manually in the CLI. The login is `shell` and the password is the service tag number on the pullout tab on the front of the appliance. Type `enable` and enter the same password when prompted.

```
extrahop>enable
extrahop#configure
extrahop(config)#time Jan 1 2009 00:00:00
extrahop(config)#exit
extrahop#exit
```

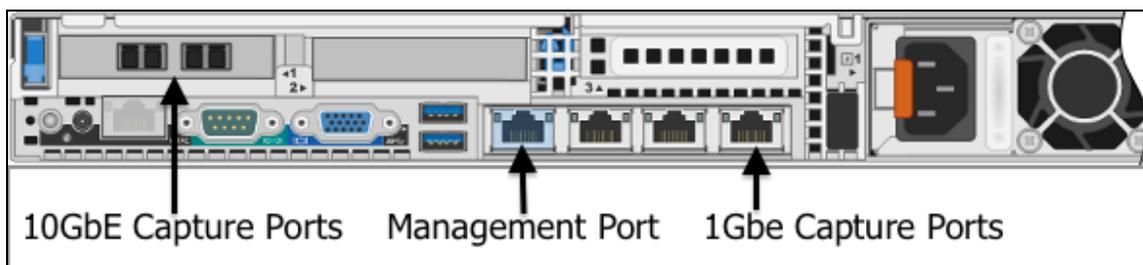
## Connect the Monitoring Port

Use a network patch cable to connect the monitoring port on the ExtraHop appliance to a network tap or mirror port on the switch. Refer to the following diagrams.

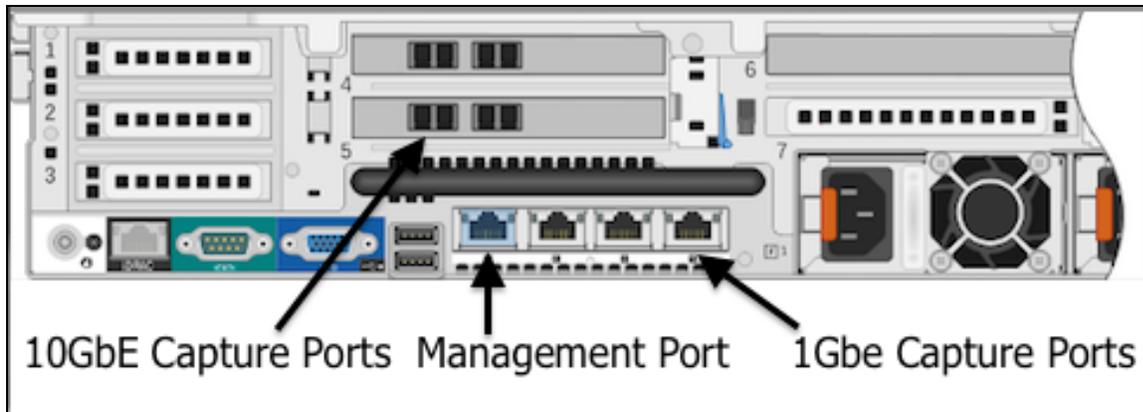
### EH6100



### EH8100



### EH9100



## Start Using the ExtraHop System

Open a browser window and navigate to `https://<extrahop_ip>`, where `<extrahop_ip>` is the IP address displayed on the LCD at the front of the ExtraHop appliance.

The default login is `setup` and password is the service tag number on the pullout tab on the front of the appliance. You can modify user names and passwords in the ExtraHop Admin UI at `https://<extrahop_ip>/admin`.

After logging in, you can navigate the ExtraHop browser-based graphical user interface to configure alerts, monitor and troubleshoot your networks, view metrics for your devices, examine relative performance within device groups, and adjust settings.

## Enable the 10/100/1000 BASE-T Ports

On the EH6100, EH8100, and EH9100 appliances, the 10GbE ports support SFP+ SR-fiber modules. In certain circumstances, you might want to use the additional 10/100/1000 BASE-T ports (labeled 2, 3, and 4 on the ExtraHop appliance) for monitoring instead of the 10G BASE-SR ports.

Depending on your license, the Gb3 and Gb4 ports may be disabled on the ExtraHop system. Contact ExtraHop sales at [sales@extrahop.com](mailto:sales@extrahop.com) for information about licensing these additional ports.

Complete the following steps to enable the 10/100/1000 BASE-T ports.

1. In your browser, navigate to the ExtraHop web administration utility at `https://<extrahop_ip>/admin`, where `<extrahop_ip>` is the IP address displayed on the LCD at the front of the ExtraHop appliance. Log in to the system with the assigned user name and password.
2. Go to the **Network Settings** section and click **Connectivity**.
3. In the **Interface Status** section, a diagram of the back of the ExtraHop appliance is displayed.
  - **Blue Ethernet Port:** Identifies the management port.
  - **Black Ethernet Port:** Specifies that the port is licensed and enabled but down.

- **Green Ethernet Port:** Specifies that the licensed port has an active Ethernet cable connected.
  - **Gray Ethernet Port:** Identifies a disabled or unlicensed port.
4. Configure interface 1 for management:
- **Admin UI:** In the **Interface 1** section, click the **Change** button.

Interface 1	
Interface Mode	Management Port
DHCP	Enabled
IP Address	10.10.6.208
Netmask	255.255.0.0
Gateway	10.10.1.255
MAC Address	78:2b:cb:1e:db:82

[Change](#)

The **Network Settings for Interface 1** page appears with the following editable fields:

### Network Settings for Interface 1

Interface Mode:

DHCP:

IP Address:

Netmask:

Gateway:

Routes: None

[Save](#) [Cancel](#)

Click the **Interface Mode** drop-down list, select **Management Port**, change the other settings as needed, and click **Save**.

For more information about throughput, refer to the *Connectivity* section of the *Admin UI Users Guide*. To view the PDF version of this guide, go to the ExtraHop Support Forum at [https://-forum.extrahop.com/documents](https://forum.extrahop.com/documents) and log in with your credentials.

- **CLI:** Enter the following commands:

```
extrahop#configure
```

```
extrahop(config)#interface  
  
extrahop(config-if)#ip ipaddr <extrahop_management_ip>  
<netmask> <gateway>
```

For more information about entering commands in the CLI, refer to the *Shell Commands* section of the *Admin UI Users Guide*.